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Approved For Release 2004/07/08 : CIA-RDP81B00879R001000100046-4

OXC-4131-52

6 November 1962

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MEMORANDUM FOR: Assistant Director, OSA

SUBJECT : Soluble OXCART Navigation Charts

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1. At the direction of [] OXCART Branch, [] along with [] visited ACIC, St. Louis, on 2 November 1962. The purpose of the visit was to be advised on problem areas encountered by ACIC in its efforts to print a chart (JN-47, Bahama Islands (Cuba) on special soluble paper. From a stock of 300 sheets of special paper provided by CIA, ACIC was able to print approximately 250 usable charts.

2. ACIC encountered a number of problems in printing the chart, among which included the following:

(a) Due to the flimsy quality of the paper it was impossible to print a chart in the normal number of colors. In the case of JN-47 the normal number of colors is twelve. With ordinary chart paper this means running the paper through the press several times. Selecting four colors at random, the soluble paper JN-47 was run once through a four-color press with fair success, but with 100 per cent wastage. This was due to the fact that the paper split and stuck to the blanket of the press. The paper could not be printed on the "felt" side because of the sticky quality. By experimenting the printers discovered they could use the "wrong" side of the paper. Registration inaccuracy is 6/100 of an inch as opposed to 1/100 of an inch for normal JN charts. Other problems encountered with the paper were the following:

(1) It was not finish-trimmed;

(2) Paper was not of the proper size;

(3) The paper was not assembled uniformly; that is, all sheets were not with the felt side up. Instead, every fifth or sixth sheet was piled in reverse order making the printing process much longer than it would have been had these details been taken care of by the paper manufacturer.

(b) ACIC was able to print on the paper only after coating the paper with a two-part wax and one part lithographic tint base. This in no way affected the solubility of the paper.

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referring to Project **OXCART**

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(c) ACIC pointed out that printing costs increase by 300 per cent when using this type of paper.

(d) ACIC feels that American paper companies have in being or can develop the same type paper but with better printing qualities. They provided addresses and names of two organizations that could possibly take care of the solubility paper requirements.

3. ACIC was interested in amounts of printing that would be required in the future. Based on information obtained from IDEALIST Section, I advised that probably 18 JN's and 6 GMC's in 100 copies each would be required in the not too distant future. This requirement would call for at least 50,000 sheets of paper. If 1:200 series target charts were to be printed on soluble paper, the amount of stock required would be astronomical. There are over 2,000 target charts presently printed for the Soviet-Satellite areas. (1: 200,000 scale charts are being considered for target identification in zeroing the INS navigation system.)

4. ACIC further pointed out that Headquarters Air Force would have to provide direction in any further printing on soluble paper for this project. In view of technical problems and subsequent loss of press time, ACIC's normal printing would of necessity suffer. Headquarters Air Force will have to provide priorities to St. Louis in order for them to proceed any further on this project. They recommended too that an ACIC employee be cleared to work on this project on a regular full-time basis.

5. RECOMMENDATIONS:

(a) If the requirement for printing on soluble paper still abides, fast action should be taken to obtain a paper in the U. S. that meets both the printing qualities and solubility characteristics desired.

(b) An assessment should be made for the need of 1:200,000 series target charts for utilization in the type navigation envisaged for the vehicle.

(c) That an ACIC requirements individual be cleared for this project to follow through on charting problems.

(d) That Headquarters Air Force, through Colonel Geary and AFICIN, be brought more deeply into the problem in order to establish priorities for ACIC to produce OXCART charts.

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6. The undersigned is at your disposal to discuss this matter with you further.

SIGNED


Intelligence Staff/OSA

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